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AMENDMENTS TO THE CLAIMS:

1. (Currently Amended) A semiconductor device, comprising:

a multi-layered insulation film formed on a semiconductor substrate, said multilayered insulation film comprising:

a first insulation layer comprising an organic material having a dielectric constant which is lower than a silicon oxide dielectric constant;

a second insulation layer comprising a polysiloxane compound having an Si-H group and formed on and adhering to a top of said first insulation layer;

a third insulation layer comprising an inorganic material and formed on and adhering to a top of said second insulation layer; and

- a plurality of wires <u>embedded in a groove</u> formed in said multi-layered insulation film, said multi-layered insulation film being disposed between said wires.
- 2. (Previously Presented) The semiconductor device according to claim 1, wherein said first insulation layer comprises at least one of an organosiloxane and an aromatic-containing organic resin.
- 3. (Currently Amended) The semiconductor device according to claim 1, wherein said second insulation layer comprises at least one of hydrogen silisesquioxane silsesquioxane and a hydride organosiloxane.
- 4. (Previously Presented) The semiconductor device according to claim 1, wherein said third insulation layer comprises at least one material selected from the group consisting of silicon

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oxide, silicon nitride and silicon oxynitride.

5. (Currently Amended) A semiconductor wafer, comprising:

a multi-layered insulation film formed on a surface of the wafer, said multi-layered insulation film comprising:

a first insulation layer comprising an organic material having a dielectric constant which is lower than a silicon oxide dielectric constant;

a second insulation layer comprising a polysiloxane compound having an Si-H group and formed on and adhering to a top of said first insulation layer;

a third insulation layer comprising an inorganic material and formed on and adhering to a top of said second insulation; and

a plurality of wires <u>embedded in a groove</u> formed in said multi-layered insulation film, said multi-layered insulation film being disposed between said wires.

- 6. (Previously Presented) The semiconductor wafer according to claim 5, wherein said first insulation layer comprises at least one of an organopolysiloxane and an aromatic-containing organic resin.
- 7. (Currently Amended) The semiconductor device according to claim 5, wherein said second insulation layer comprises at least one of hydrogen silisesquioxane silsesquioxane and a hydride organosiloxane.

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8. (Currently Amended) The semiconductor wafer according to claim 5, wherein said third

insulation layer is comprises at least one material selected from the group consisting of silicon

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oxide, silicon nitride and silicon oxynitride.

9-30 (Canceled)

31. (Previously Presented) The semiconductor device according to claim 1, wherein said

dielectric constant of said first insulation layer is no greater than 3.5.

32. (Currently Amended) The semiconductor device according to claim 2, wherein said

organopolysiloxane comprises at least one of an alkyl silisesquioxane silsesquioxane and a

hydride alkyl siloxane.

33. (Previously Presented) The semiconductor device according to claim 2, wherein said

aromatic-containing organic resin comprises at least one of a polyaryl ether and a divinyl

siloxane-bis-benzocyclobutene.

34. (Currently Amended) The semiconductor device according to claim 1,

wherein said first insulation layer has comprises a thickness greater than a thickness of

said second insulation layer, and

wherein said first insulation layer has comprises a thickness greater than a thickness of

said third insulation layer.

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- 35. (Previously Presented) The semiconductor device according to claim 1, wherein said second insulation layer comprises a first layer and a second layer placed in said first layer.
- 36. (Currently Amended) The semiconductor device according to claim 1, wherein said second insulation layer comprises methyl silisesquioxane silsesquioxane.
- 37. (Currently Amended) The semiconductor device according to claim 1, further comprising:

 a plurality of wires formed in said multi-layer insulation film wherein a bottom of said

 groove is formed on a same surface as said first insulation layer.
- 38. (Currently Amended) The semiconductor device according to claim 381, wherein said plurality of wires comprise copper wires.
- 39. (Currently Amended) The semiconductor device according to claim <u>142</u>, wherein said second insulation <u>film layer</u> comprises a methylated hydrogen <u>silisesquioxane</u> <u>silsesquioxane</u> (MHSQ) film.
- 40. (Currently Amended) The semiconductor device according to claim 39, wherein said MHSQ film has comprises a thickness of about 50 nm.
- 41. (Currently Amended) A semiconductor device having a damascene wiring structure, said semiconductor device comprising:
 - a multi-layered insulation film formed on a semiconductor substrate, said multi-

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layered insulation film having a plurality of recesses and comprising:

a first insulation layer comprising an organic material having a dielectric constant which is lower than a silicon oxide dielectric constant;

a second insulation layer comprising a polysiloxane compound having an Si-H group and formed on and adhering to a top of said first insulation layer;

a third insulation layer comprising an inorganic material and formed on and adhering to a top of said second insulation layer; and

an electroconductive film formed in each recess in said plurality of recesses,
said multi-layered insulation film being disposed between each recess having
said electroconductive film in said plurality of recesses.

42. (Currently Amended) A semiconductor device comprising a multi-layered insulation film and a plurality of wires formed on a semiconductor substrate, said multi-layered insulation film comprising:

a first insulation layer comprising an organic material having a dielectric constant which is lower than a silicon dioxide dielectric constant;

a second insulation, adhesive layer comprising a polysiloxane compound having an Si-H group and formed on and being in contact with a top of said first insulation layer; and a third insulation layer comprising an inorganic material and formed on and being in contact with a top of said second insulation, adhesive layer,

wherein said multi-layered insulation film is disposed between said wires in said plurality of wires, and

wherein said plurality of wires are embedded in a groove formed in said multi-

43. (New) The semiconductor device according to claim 1, wherein said first insulation layer, said second insulation layer and said third insulation layer of said multi-layered insulation film comprise substantially uniform widths.

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- 44. (New) The semiconductor device according to claim 1, wherein a surface of said multilayered film is substantially coplanar with a surface of said plurality of wires.
- 45. (New) The semiconductor device according to claim 1, wherein said second insulation layer is formed by one of a plasma CVD and a spin coating process where said semiconductor substrate is continuously maintained in a plasma atmosphere.
- 46. (New) The semiconductor device according to claim 3, wherein said methylated hydrogen silsesquioxane comprises repeating units shown by formulae I, II and III

$$\begin{bmatrix}
CH_3 \\
0 - \dot{s}i \\
0
\end{bmatrix}$$

$$\begin{bmatrix}
H \\
0 - \dot{s}i \\
0
\end{bmatrix}$$

$$\begin{bmatrix}
0 \\
0 - \dot{s}i \\
0
\end{bmatrix}$$
(II) (III) , and

wherein a molar ratio of [II] to a total of I, II, and III is at least 0.2.